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AB - J06322615 Carbon-fibre comprises a graphite sheet comprising six membered carbon ring structure as the main structure.

- The carbon fibre pref. has less than 3nm of dia.. Prepn. of the aforementioned carbon fibre comprises sending hydrocarbon as raw gas in arc discharge plasma comprising mainly inert gas, and forming a carbon fibre by pyrolysing it in the presence of gaseous catalyst substance. The catalyst is (transition) metal or (transition) metal carbide. Prepn. of the carbon fibre can be obtd. carbon nano-tube comprising single layer cylindrical graphite sheet different from conventional carbon nano-tube. Dia. of the carbon nano-tube is less than 3nm, almost all of it is 1nm.
- USE/ADVANTAGE - Single layer spiral cylindrical structure carbon fibre is useful for electronic device. In the single layer graphite sheet, approximate uniform dia. of carbon nano-tube is obtd., so control of electric characteristics of the carbon nano-tube is simplified. By making the single layer carbon nano-tube to nuclei, and growing newly graphite cylinder on the surface of the single layer carbon nano-tube, mfg. of carbon nano-tube which is controlled number of the cylinder is developed.(Dwg.0/6)

CN - R01669-P

DRL - 1669-P

IW - CARBON@ FIBRE MANUFACTURE ELECTRONIC DEVICE COMPRISE GRAPHITE SHEET
SIX MEMBER CARBON@ RING STRUCTURE MAIN STRUCTURE

IKW - CARBON@ FIBRE MANUFACTURE ELECTRONIC DEVICE COMPRISE GRAPHITE SHEET
SIX MEMBER CARBON@ RING STRUCTURE MAIN STRUCTURE

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PAW - (NIDE) NEC CORP

TI - Carbon@ fibre for mfr. of electronic device - comprises graphite sheet with six membered carbon@ ring structure as main structure